

[MULTIFUNCTIONAL BATTERY CHARGER]

Abstract

A multifunctional battery charger, capable of charging both lithium battery and nickel–metal hydride battery, and a method of charging battery using the multifunctional battery charger are provided. The multifunctional battery charger comprises a slot, for receiving a battery to be charged, wherein the battery is a lithium battery or a nickel–metal hydride battery; a microcontroller, comprising an identifying module and a charging module, wherein the identifying module is adapted for identifying a specification of the battery; a pulse width modulator, for charging the battery, wherein the pulse width modulator and the slot are connected to the microcontroller, and wherein the charging module of the microcontroller is adapted for controlling the pulse width modulator for charging said battery.